Abstract

An application programming interface (API) for synchronizing multiple devices in a system. The API includes a plurality of functions invocable in a program to synchronize multiple devices, where each function is executable to perform a respective functionality related to synchronizing the devices, and at least one of the functions is executable to access a plurality of instrument drivers corresponding respectively to the plurality of devices to synchronize the plurality of devices. In synchronizing the plurality of devices, the functions determine a trigger clock signal for each of the plurality of devices, and synchronize the plurality of devices based on the determined trigger clock signals. The API also includes a plurality of attributes corresponding to respective properties of the system related to synchronization of the devices, including one or more trigger attributes and/or one or more trigger clock attributes for each of the devices. The API representations may be text-based and/or graphical.